

AMENDMENTS

In the Claims:

1. (currently amended) An intelligent docking station (IDS) system, comprising:
 - a docking station having a co-processor capable of converting a hand held-based data element into a device enabled data element;
 - a bus that couples the docking station to a handheld computer;
 - the handheld computer having a processor operated by a first operating system;
 - the co-processor being operated by a second operating system, the second operating system communicating with a top-level driver capable of formatting handheld-based data element into a device enabled data element, and also enabled to deliver the device enabled data element to a low level device driver; and
 - a device coupled to the docking station, the device capable of receiving the device enabled data element from the low level driver.
2. (original) The IDS system of claim 1 wherein the device is a monitor.
3. (original) The IDS system of claim 1 wherein the device is a mouse.
4. (original) The IDS system of claim 1 wherein the device is memory.
5. (original) The IDS system of claim 1 wherein the bus is a wireless connection.
6. (original) The IDS system of claim 1 wherein the device coupled to the docking station is integrated with the IDS.
7. (original) The IDS of claim 1 further comprising a communication driver integrated with the IDS, the communication driver capable of converting signals between a bus-enabled data element and an IDS enabled data element.

8. (original) The IDS of claim 1 further comprising a communication driver integrated with the handheld device, the communication driver capable of converting signals between a bus-enabled data element and a handheld data element.

9. (original) The IDS of claim 1 wherein the IDS comprises an IDS Coprocessor having an IDS OS capable of directing a top-level device driver and a low-level device driver, wherein the low-level device driver is enabled to convert between a device data element and a IDS enabled data element.

10. (currently amended) A software system for an intelligent docking station, comprising:

an IDS operating system;

a communication driver, the communication driver capable of sending and receiving bus-enabled data elements;

a low-level device driver, the low-level device driver capable of sending and receiving device-based data elements; [[and]]

a top-level device driver, the top-level device driver capable of assembling and formatting data elements for a low-level device driver;

the IDS operating system adapted to communicate with a first operating system for a handheld computer having a processor; and

the IDS operating system being adapted to execute via a co-processor communicating with the top-level driver, and also enabled to deliver a device enabled data element to the low-level device driver.

11. (original) The system of claim 10 wherein the IDS computer operating system is enabled to convert a data element between a type compatible with the low-level device driver, and a type compatible with the top-level device driver.

12. (currently amended) A software system for enabling a handheld computer to use an intelligent docking station, the system comprising:

an IDS operating system;

a low-level device driver in communication with the IDS operating system;

a top-level device driver in communication with the IDS operating system; [[and]]

a communication driver in communication with the top level device driver, the communication driver capable of converting signals between a bus-enabled data element and a handheld data element

the IDS operating system adapted to communicate with a first operating system for a handheld computer having a processor; and

the IDS operating system being adapted to execute via a co-processor communicating with the top-level driver, and also enabled to deliver a device enabled data element to the low-level device driver.

13. (original) The software system of claim 12 further comprising a bus coupled between the communication driver and a second communication driver located in a handheld.

14. (original) The software system of claim 13 wherein the bus is a wireless system.

15. (original) The software system of claim 13 further comprising a top-level device driver coupled between the second communication driver and a handheld OS.

16. (original) The software system of claim 12 wherein the low-level device driver is a keyboard driver.

17. (original) The software system of claim 12 wherein the low-level device driver is a monitor driver.

18. (original) The software system of claim 12 wherein the low-level device driver is capable of reading and writing data to memory.

19. (original) The software system of claim 12 wherein the bus is a Bluetooth network.

20. (original) The software system of claim 12 wherein the bus is an optical bus.